BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

AME OF WORK : PROVIDING CEMENT CONCRETE ROAD TO 1st 'A' MAIN, 2nd MAIN AND CROSS ROADS OF TTUR LAYOUT IN WARD NO.03

Estimate Cost Rs. 200.00 Lakhs

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
KSRB 2-2.1 : **Earth work excavation** for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)								
for Drain Work	Cum							
1st 'A' Cross Road		2	90.00	1.00	1.00	180.00		
		1	80.00	1.00	1.00	80.00		
		2	27.00	1.00	0.90	48.60		
		2	15.00	1.00	0.90	27.00		
2nd Cross Road		2	57.00	1.00	1.10	125.40		
3rd Cross Road		2	57.00	1.00	0.90	102.60		
4th Cross Road		2	57.00	1.00	1.10	125.40		
5th Cross Road		2	57.00	1.00	0.80	91.20		
6th Cross Road		2	60.00	1.00	0.90	108.00		
Link Road		1	81.00	1.00	1.00	81.00		
2nd 'A' Main		2	130.00	1.00	0.90	234.00		
5th 'A' Main		2	160.00	1.00	1.00	320.00		
Cross Road of 7th A Main		1	15.00	1.00	1.00	15.00		
						1538.20 -	200.34	**308163.00**
Basic Rate	189.00							
Area Weightage @ 6%	11.34							
Total	200.34							
KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								
for Road Work	Cum							
1st Cross Road		1	90.00	4.20	0.40	151.20		
		1	80.00	5.00	0.30	120.00		
		1	15.00	4.00	0.40	24.00		
		1	55.00	4.00	0.30	66.00		
Cross Road of 1st 'A' Cross		1	27.00	3.50	0.40	37.80		
		1	15.00	4.00	0.40	24.00		

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
2nd Cross Road		1	58.00	4.00	0.30	69.60		
3rd Cross Road		1	57.00	4.00	0.30	68.40		
4th Cross Road		1	57.00	5.00	0.40	114.00		
5th Cross Road		1	57.00	6.00	0.40	136.80		
6th Cross Road		1	60.00	5.00	0.30	90.00		
Link Road		2	85.00	4.00	0.40	272.00		
1st 'A' Main Road		1	12.00	5.00	0.40	24.00		
2nd 'A' Main Road		1	130.00	4.00	0.40	208.00		
		1	15.00	5.50	0.30	24.75		
3rd 'A' Main Road		1	14.00	5.00	0.40	28.00		
4th 'A' Main Road		1	12.00	4.00	0.40	19.20		
5th 'A' Main Road		1	160.00	4.50	0.40	288.00		
		1	10.00	5.00	0.40	20.00		
						1785.75	166.42	**297185.00**
Basic Rate	157.00							
Area Weightage @ 6%	9.42							
Total	**166.42**							

KSRB 2-2.1 : **Earth work excavation** for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in **ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)

	Cum							
for Culverts		8	6.00	1.50	1.20	86.40		
						86.40	200.34	**17309.38**
Basic Rate	189.00							
Area Weightage @ 6%	11.34							
Total	200.34							

KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)

	Cum							
			Qty Vide Item No.1+2+3			**3410.35**	100.00	**341035.00**
Average Weight of Earth 1.28 Tonne/Km								
Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
Add loading and unloading Item No 17.1)	68.00							
Total	**100.00**							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (P.No.155 It.No.20.4.2)								
Road Cut Portions	Cum							
1st Cross Road		1	90.00	0.75	0.15	10.13		
		1	80.00	0.60	0.15	7.20		
		1	15.00	0.75	0.15	1.69		
		1	55.00	0.60	0.15	4.95		
Cross Road of 1st 'A' Cross		1	27.00	0.90	0.15	3.65		
		1	15.00	1.50	0.15	3.38		
2nd Cross Road		1	58.00	0.75	0.15	6.53		
3rd Cross Road		1	57.00	3.00	0.15	25.65		
4th Cross Road		1	57.00	0.75	0.15	6.41		
5th Cross Road		1	57.00	2.00	0.15	17.10		
6th Cross Road		1	60.00	0.75	0.15	6.75		
Link Road		1	85.00	0.75	0.15	9.56		
1st 'A' Main Road		1	12.00	2.00	0.15	3.60		
2nd 'A' Main Road		1	130.00	3.00	0.15	58.50		
		1	15.00	0.80	0.15	1.80		
3rd 'A' Main Road		1	14.00	0.75	0.15	1.58		
4th 'A' Main Road		1	12.00	1.00	0.15	1.80		
5th 'A' Main Road		1	160.00	0.75	0.15	18.00		
		1	10.00	0.75	0.15	1.13		
						189.38	1665.26	**315371.00**
	Basic Rate	1571.00						
	Area Weightage @ 6%	94.26						
	Total	**1665.26**						
KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
for Road Work								
1st Cross Road		1	90.00	4.20	0.15	56.70		
		1	80.00	5.00	0.15	60.00		
		1	15.00	4.00	0.15	9.00		
		1	55.00	4.00	0.15	33.00		
Cross Road of 1st 'A' Cross		1	27.00	3.50	0.15	14.18		

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
2nd Cross Road		1	15.00	4.00	0.15	9.00		
3rd Cross Road		1	58.00	4.00	0.15	34.80		
4th Cross Road		1	57.00	4.00	0.15	34.20		
5th Cross Road		1	57.00	5.00	0.15	42.75		
6th Cross Road		1	57.00	6.00	0.15	51.30		
Link Road		1	60.00	5.00	0.15	45.00		
1st 'A' Main Road		1	85.00	4.00	0.15	51.00		
2nd 'A' Main Road		1	12.00	5.00	0.15	9.00		
		1	130.00	4.00	0.15	78.00		
3rd 'A' Main Road		1	15.00	5.50	0.15	12.38		
4th 'A' Main Road		1	14.00	5.00	0.15	10.50		
5th 'A' Main Road		1	12.00	4.00	0.15	7.20		
		1	160.00	4.50	0.15	108.00		
for Drain Work		1	10.00	5.00	0.15	7.50		
1st 'A' Cross Road		2	90.00	1.00	0.15	27.00		
		1	80.00	1.00	0.15	12.00		
		2	27.00	1.00	0.15	8.10		
2nd Cross Road		2	15.00	1.00	0.15	4.50		
3rd Cross Road		2	57.00	1.00	0.15	17.10		
4th Cross Road		2	57.00	1.00	0.15	17.10		
5th Cross Road		2	57.00	1.00	0.15	17.10		
6th Cross Road		2	57.00	1.00	0.15	17.10		
Link Road		2	60.00	1.00	0.15	18.00		
2nd 'A' Main		1	81.00	1.00	0.15	12.15		
5th 'A' Main		2	130.00	1.00	0.15	39.00		
Cross Road of 7th A Main		2	160.00	1.00	0.15	48.00		
for Culverts		1	15.00	1.00	0.15	2.25		
		8	6.00	1.65	0.15	11.88		
						924.78	5159.02	**4770959.00**
Basic Rate 4867.00								
Area Weightage @ 6% 292.02								
Total 5159.02								

KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (Page No. 23/ Item No. 5.6)

	Sqm							
for Culvert	2x8	6.00	0.60	0.80	46.08			
		4			**46.08**	4438.22	**204513.00**	

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Basic Rate	4187.00							
Area Weightage @ 6%	251.22							
Total	**4438.22**							

KSRB 15.1.1: Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications (Page No.113/Item No. 15.1)

	Sqm							
for Culvert		2x8	6.00		0.80	76.80		
						76.80	102.82	**7897.00**
Basic Rate	97.00							
Area Weightage @ 6%	5.82							
Total	**102.82**							

KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs with 20mm and down size graded granite metal coarse aggregate @ 0.84cum and fine aggregate @ 0.56 cum machine mixed concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2.(P No. 13 / Item No.4.7)

	Cum							
for Culvert coping		2x8	6.00	0.60	0.10	5.76		
for Culvert Vent Concrete		8	6.00	0.60	0.10	2.88		
						8.64	5598.92	**48375.00**
Basic Rate	5282.00							
Area Weightage @ 6%	316.92							
Total	**5598.92**							

KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)

	tonne	No.of Bars	Width/Length	Rmtr	Kg/Rmtr	Total in Kg		
		45% of Qty Vide Item No.			in Qtl	237.006		
					in tonne	**23.7006**	64243.42	**1522608.00**
Basic Rate	60607.00							
Area Weightage @ 6%	3636.42							
Total	**64243.42**							

KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31)

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Sqm							
1st 'A' Cross Road		2x4	90.00		0.60	432.00		
		2x2	80.00		0.60	192.00		
		2x4	27.00		0.60	129.60		
		2x4	15.00		0.60	72.00		
2nd Cross Road		2x4	57.00		0.60	273.60		
3rd Cross Road		2x4	57.00		0.60	273.60		
4th Cross Road		2x4	57.00		0.60	273.60		
5th Cross Road		2x4	57.00		0.60	273.60		
6th Cross Road		2x4	60.00		0.60	288.00		
Link Road		2x2	81.00		0.60	194.40		
2nd 'A' Main		2x4	130.00		0.60	624.00		
5th 'A' Main		2x4	160.00		0.60	768.00		
Cross Road of 7th A Main		2x2	15.00		0.60	36.00		
						3830.40	310.58	**1189646.00**

Basic Rate	293.00
Area Weightage @ 6%	17.58
Total	**310.58**

2 Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal,coarseaggregated @ 0.69cum ,and fine aggregated @ 0.460cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 crns thick, vibrated for all works in foundation for footings,pedestals,retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts,struts, buttresses, bed blocks, anchor blocks, plinths etc.,including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.specifications No.KBS 4.1,4.6 (P.No.13/ ii,No.4.11)

bed	Cum					
1st 'A' Cross Road		2	90.00	1.00	0.15	27.00
		1	80.00	1.00	0.15	12.00
		2	27.00	1.00	0.15	8.10
		2	15.00	1.00	0.15	4.50
2nd Cross Road		2	57.00	1.00	0.15	17.10
3rd Cross Road		2	57.00	1.00	0.15	17.10
4th Cross Road		2	57.00	1.00	0.15	17.10
5th Cross Road		2	57.00	1.00	0.15	17.10
6th Cross Road		2	60.00	1.00	0.15	18.00
Link Road		1	81.00	1.00	0.15	12.15
2nd 'A' Main		2	130.00	1.00	0.15	39.00
5th 'A' Main		2	160.00	1.00	0.15	48.00
Cross Road of 7th A Main		1	15.00	1.00	0.15	2.25

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Side wall								
Test 'A' Cross Road		4	90.00	0.15	0.60	32.40		
		2	80.00	0.15	0.60	14.40		
		4	27.00	0.15	0.60	9.72		
		4	15.00	0.15	0.60	5.40		
2nd Cross Road		4	57.00	0.15	0.60	20.52		
3rd Cross Road		4	57.00	0.15	0.60	20.52		
4th Cross Road		4	57.00	0.15	0.60	20.52		
5th Cross Road		4	57.00	0.15	0.60	20.52		
6th Cross Road		4	60.00	0.15	0.60	21.60		
Link Road		2	81.00	0.15	0.60	14.58		
2nd 'A' Main		4	130.00	0.15	0.60	46.80		
5th 'A' Main		4	160.00	0.15	0.60	57.60		
Cross Road of 7th A Main		2	15.00	0.15	0.60	2.70		
						526.68	6371.66	**3355826.00**
Basic Rate 6011.00								
Area Weightage @ 6% 360.66								
Total 6371.66								
Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20** mm and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	Sqm							
Test 'A' Cross Road		2	90.00	0.90		162.00		
		1	80.00	0.90		72.00		
		2	27.00	0.90		48.60		
		2	15.00	0.90		27.00		
2nd Cross Road		2	57.00	0.90		102.60		
3rd Cross Road		2	57.00	0.90		102.60		
4th Cross Road		2	57.00	0.90		102.60		
5th Cross Road		2	57.00	0.90		102.60		
6th Cross Road		2	60.00	0.90		108.00		
Link Road		1	81.00	0.90		72.90		
2nd 'A' Main		2	130.00	0.90		234.00		
5th 'A' Main		2	160.00	0.90		288.00		
Cross Road of 7th A Main		1	15.00	0.90		13.50		
						1436.40	2100.00	**3016440.00**
Data Rate **2100.00**								

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete **(RMC)** M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc.,complete (exclusive of cost of steel and fabrication charges.) Page No.18 / Item No. 4.48)								
for Road Work	Cum							
1st Cross Road		1	90.00	4.20	0.125	56.70		
		1	80.00	5.00	0.125	50.00		
		1	15.00	4.00	0.125	7.50		
		1	55.00	4.00	0.125	27.50		
Cross Road of 1st 'A' Cross		1	27.00	3.50	0.125	11.81		
		1	15.00	4.00	0.125	7.50		
2nd Cross Road		1	58.00	4.00	0.125	29.00		
3rd Cross Road		1	57.00	4.00	0.125	28.50		
4th Cross Road		1	57.00	5.00	0.125	35.63		
5th Cross Road		1	57.00	6.00	0.125	42.75		
6th Cross Road		1	60.00	5.00	0.125	37.50		
Link Road		1	85.00	4.00	0.125	42.50		
1st 'A' Main Road		1	12.00	5.00	0.125	7.50		
2nd 'A' Main Road		1	130.00	4.00	0.125	65.00		
		1	15.00	5.50	0.125	10.31		
3rd 'A' Main Road		1	14.00	5.00	0.125	8.75		
4th 'A' Main Road		1	12.00	4.00	0.125	6.00		
5th 'A' Main Road		1	160.00	4.50	0.125	90.00		
		1	10.00	5.00	0.125	6.25		
						570.70	6231.74	**3556454.00**
Basic Rate 5879.00								
Area Weightage @ 6% 352.74								
Total 6231.74								
Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift (P.177/ I.22.7)								
for Road Work	Sqm							
1st Cross Road		1	90.00	4.20		378.00		
		1	80.00	5.00		400.00		
		1	15.00	4.00		60.00		
		1	55.00	4.00		220.00		
Cross Road of 1st 'A' Cross		1	27.00	3.50		94.50		
		1	15.00	4.00		60.00		
2nd Cross Road		1	58.00	4.00		232.00		

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
3rd Cross Road		1	57.00	4.00		228.00		
4th Cross Road		1	57.00	5.00		285.00		
5th Cross Road		1	57.00	6.00		342.00		
6th Cross Road		1	60.00	5.00		300.00		
Link Road		1	85.00	4.00		340.00		
1st 'A' Main Road		1	12.00	5.00		60.00		
2nd 'A' Main Road		1	130.00	4.00		520.00		
		1	15.00	5.50		82.50		
3rd 'A' Main Road		1	14.00	5.00		70.00		
4th 'A' Main Road		1	12.00	4.00		48.00		
5th 'A' Main Road		1	160.00	4.50		720.00		
		1	10.00	5.00		50.00		
						4490.00	95.40	**428346.00**
Basic Rate	90.00							
Area Weightage @ 6%	5.40							
Total	**95.40**							

Providing Groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine generator and HOM of machinery including cost of blade, coolant etc., including cleaning aof groove & providing sand and hot bitumen fillars and filler metal etc.,including cost of conveyance of all materials, labour,lead and lift charges and all the other incidental charges as per drawing and as per specifications, MORTH specification. (P.178/ I.22.8)

for road	m						
1st Cross Road		15	4.20			63.00	
		13	5.00			66.67	
		3	4.00			10.00	
		9	4.00			36.67	
Cross Road of 1st 'A' Cross		5	3.50			15.75	
		3	4.00			10.00	
2nd Cross Road		10	4.00			38.67	
3rd Cross Road		10	4.00			38.00	
4th Cross Road		10	5.00			47.50	
5th Cross Road		10	6.00			57.00	
6th Cross Road		10	5.00			50.00	
Link Road		14	4.00			56.67	
1st 'A' Main Road		2	5.00			10.00	
2nd 'A' Main Road		22	4.00			86.67	
		3	5.50			13.75	
3rd 'A' Main Road		2	5.00			11.67	
4th 'A' Main Road		2	4.00			8.00	